

IN THE CLAIMS

Please amend the claims as set forth below in marked-up form.

1. (Original) A digital-signal-processing circuit having a gamma-correction unit for carrying out gamma correction on an input digital video signal by using a gamma-correction table, wherein the number of bits input to said gamma-correction unit is set at a value greater than the number of bits output from said gamma-correction unit.

*A' cont'd*  
2. (Original) A digital-signal-processing circuit according to claim 1 wherein:

a signal-processing unit is provided at a stage preceding said gamma-correction unit and used to apply an arbitrary gain to said input digital video signal; and

the number of bits output from said gamma-correction unit is set at a value greater than the number of bits input to said signal-processing unit.

3. (Currently Amended) A display apparatus comprising:  
display means employing ~~an~~ electro-optical devices, each having a non-linear response characteristic;

a digital-signal-processing circuit having a gamma-correction unit for carrying out gamma correction on an input digital video signal by using a gamma-correction table, wherein the number of bits input to said gamma-correction unit is set at a value greater than the number of bits output from said gamma-correction unit; and

D/A-conversion means for converting a digital video

signal obtained as a result of signal processing carried out by said digital-signal-processing circuit into an analog video signal and outputting said analog video signal to said display means.

4. (Original) A display apparatus according to claim 3 wherein said electro-optical devices are each a liquid-crystal cell.

*Al cont'd*  
5. (Original) A display apparatus according to claim 3 wherein said electro-optical devices are each an organic electroluminescent device.

6. (Original) A display apparatus according to claim 3 wherein said electro-optical devices are a cathode ray tube.

7. (Original) A display apparatus according to claim 3 wherein:

said digital-signal-processing circuit has a signal-processing unit provided at a stage preceding said gamma-correction unit and used to apply an arbitrary gain to said input digital video signal; and

the number of bits output from said gamma-correction unit is set at a value greater than the number of bits input to said signal-processing unit.

8. (Original) A display apparatus according to claim 7 wherein said electro-optical devices are each a liquid-crystal cell.

9. (Original) A display apparatus according to claim 7

wherein said electro-optical devices are each an organic electro-luminescent device.

10. (Original) A display apparatus according to claim 7 wherein said electro-optical devices are a cathode ray tube.

11. (Original) A liquid-crystal projector comprising:  
an LCD panel comprising a matrix of pixels each implemented by a liquid-crystal cell;

*Al contd*  
radiation means for radiating beams to the area of said LCD panel;

a digital-signal-processing circuit having a gamma-correction unit for carrying out gamma correction on an input digital video signal by using a gamma-correction table, wherein the number of bits input to said gamma-correction unit is set at a value greater than the number of bits output from said gamma-correction unit; and

D/A-conversion means for converting a digital video signal obtained as a result of signal processing carried out by said digital-signal-processing circuit into an analog video signal and outputting said analog video signal to said display means.

12. (Original) A liquid-crystal projector according to claim 11 wherein:

said digital-signal-processing circuit has a signal-processing unit provided at a stage preceding said gamma-correction unit and used to apply an arbitrary gain to said input digital video signal; and

the number of bits output from said gamma-correction unit is set at a value greater than the number of bits input to said

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signal-processing unit.

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